

WHAT IS CLAIMED IS:

1. A cleaning device which cleans at least one channel of a medical instrument with cleaning water, comprising:

5           a tubular member including a proximate-end portion and a distal-end portion which is inserted in an inlet of the channel of the medical instrument;

          a water supply nozzle port which is disposed in the distal-end portion and which leads to the channel  
10       to supply the cleaning water to the channel, when the distal-end portion is inserted in the inlet;

          a seal member which is disposed on an outer periphery of the distal-end portion and which is positioned on a proximate-end side from the water  
15       supply port to seal a gap between an outer peripheral portion of the distal-end portion and an inner surface of the channel and to constitute an engaging portion which attaches the distal-end portion inserted in the inlet to the medical instrument, when the distal-end  
20       portion is inserted in the inlet; and

          an inlet port which is disposed in the proximate-end portion of the tubular member and which is connected to a water supply source of the cleaning water.

25           2. The cleaning device according to claim 1, further comprising:

          an engagement portion which is detachably attached

to the medical instrument disposed in the tubular member to attach a unit to the medical instrument and which fixes the tubular member to the medical instrument.

5           3. The cleaning device according to claim 1, further comprising:

          a water supply nozzle port which is disposed in the tubular member and which supplies the cleaning water into the medical instrument; and

10           an another port which is disposed in the tubular member and which leads to the another water supply nozzle port and which is communicates with the water supply source of the cleaning water.

          4. A cleaning device using cleaning water to  
15           clean both channels of a medical instrument including a first channel and second channel and a portion via which both the channels are connected to each other, comprising:

          a tubular member including a proximate-end portion  
20           and a distal-end portion which able to be inserted in an inlet of the first channel of the medical instrument;

          a first water supply port which is disposed in the distal-end portion and which leads to the first channel  
25           to supply the cleaning water to the first channel, when the distal-end portion is inserted in the inlet;

          a first seal member which is disposed on an outer

peripheral surface of the distal-end portion and which is positioned and disposed on a proximate-end side from the water supply port to seal a gap between an outer peripheral portion of the distal-end portion and

5 an inner surface of the first channel and to constitute a first engaging portion which attaches the distal-end portion inserted in the inlet to the medical instrument, when the distal-end portion is inserted in the inlet;

a second water supply port which is disposed in  
10 the tubular member and which is positioned and disposed in a proximate-end side portion partitioned from the first water supply port by the first seal member when the distal-end portion is inserted in the inlet and which leads to the second channel to supply the  
15 cleaning water to the second channel;

a second engaging portion which is disposed in the tubular member and which is positioned and disposed on the proximate-end side from the second water supply port and which is constituted by an outer peripheral  
20 portion sealing from a seal member of the medical instrument, when the distal-end portion is inserted in the inlet;

a first inlet port which is disposed in the proximate-end portion of the tubular member and which  
25 is connected to the first water supply port and which is to be connected to a water supply source of the cleaning water; and

a second inlet port which is disposed in the proximate-end portion of the tubular member and which is connected to the second water supply port and which is to be connected to the water supply source of the cleaning water.

5           5. The cleaning device according to claim 4, further comprising:

          an engagement portion which is detachably attached to an attachment portion of the medical instrument, to attach a unit to the medical instrument, and which fixes the tubular member to the medical instrument.

10           6. The cleaning device according to claim 4, further comprising:

          a third water supply port which is positioned on the proximate-end side from the second engaging portion and which is disposed in the tubular member and which supplies the cleaning water into the medical instrument; and

          a third port which is disposed in the tubular member and which leads to the third water supply port and which is connected to the water supply source of the cleaning water.

20           7. A cleaning device using cleaning water to clean channels of a medical instrument which includes a first channel which passes a treatment probe to transmit a treatment energy, a grasp member for grasping a living tissue with a distal-end portion of

the treatment probe, a rod for operating the grasp member, and a second channel for passing the rod and to which a generation unit for generating the treatment energy is detachably attached, the device comprising:

5           an elongated member including a proximate-end portion and a distal-end portion which able to be inserted in an inlet of the first channel;

          an attachment member which is disposed in the proximate-end portion and which able to be attached to  
10       the medical instrument;

          a first water supply port which is disposed in the distal-end portion and which supplies the cleaning water to the first channel;

          a first engaging portion which includes a member  
15       disposed on an outer peripheral surface of the distal-end portion to seal a gap between the outer peripheral surface and an inner surface of the inlet and which is constituted of the member to attach the distal-end portion inserted in the inlet to the inner surface of  
20       the inlet;

          a second engaging portion which is positioned and disposed on the proximate-end side from a portion for connecting the first channel to the second channel in the elongated member and which includes a large-  
25       diameter portion formed to be thicker than the distal-end portion and which engages with the medical instrument by the large-diameter portion;

a second water supply port which is positioned between the first engaging portion and the second engaging portion to open in an outer peripheral wall of the elongated member and which leads to the second channel and which supplies water to the second channel;

a first supply inlet port which is disposed in the elongated member and which is connected to the first water supply port and which is to be connected to a water supply of the cleaning water to supply the water to the first water supply port; and

a second supply inlet port which is disposed in the elongated member and which is connected to the second water supply port and which is to be connected to the water supply source of the cleaning water to supply the water to the second water supply port.

8. The cleaning device according to claim 7, further comprising:

an engagement portion which is detachably attached and fixed to an attachment portion of the medical instrument, to attach a unit to the medical instrument.

9. The cleaning device according to claim 7, further comprising:

a third water supply port which is positioned on the proximate-end side from the second engaging portion and which is disposed in the tubular member and which supplies the cleaning water into the medical instrument; and

a third port which is disposed in the tubular member and which leads to the third water supply port and which is connected to the water supply source of the cleaning water.